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FIG. 1

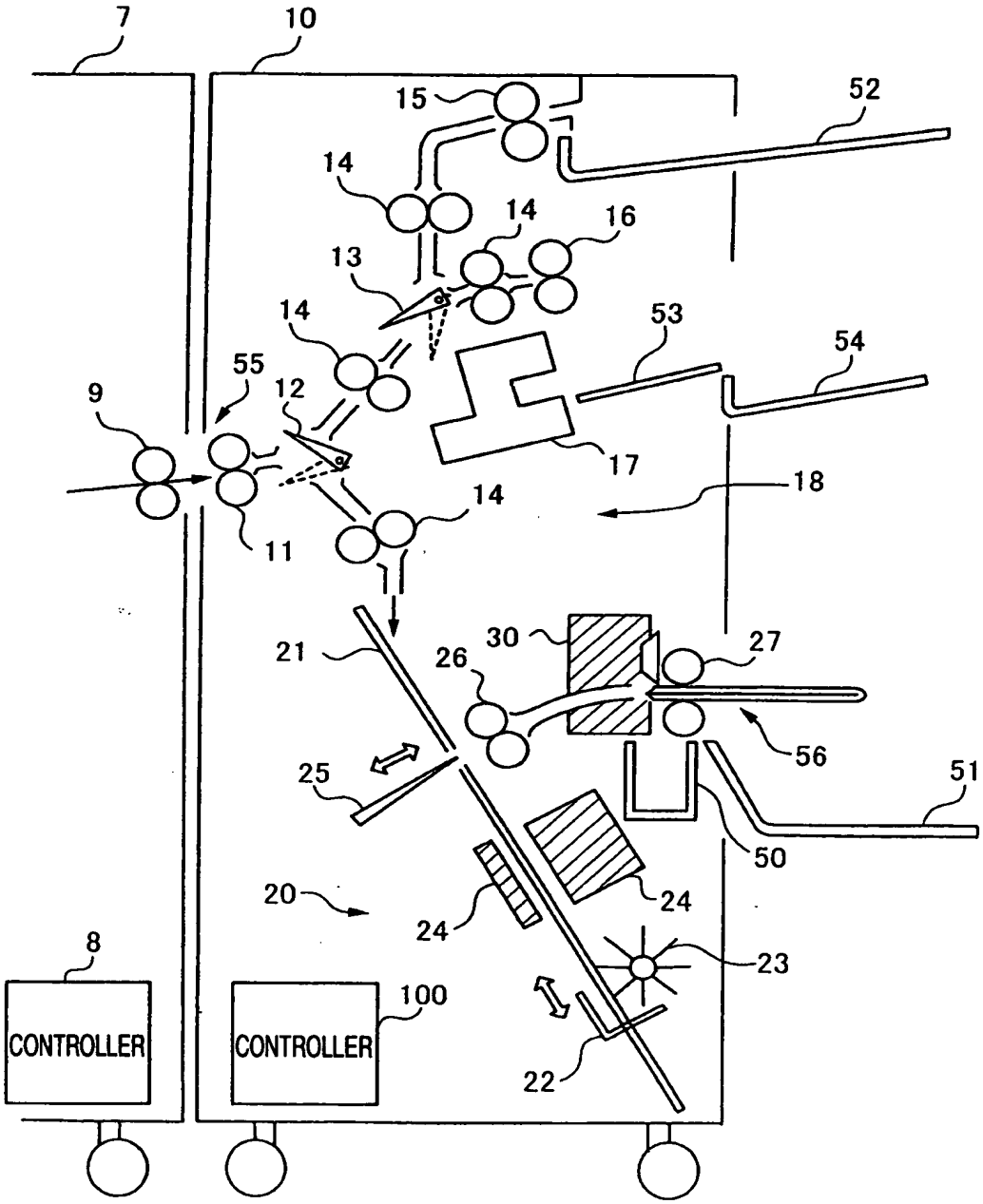


FIG. 2

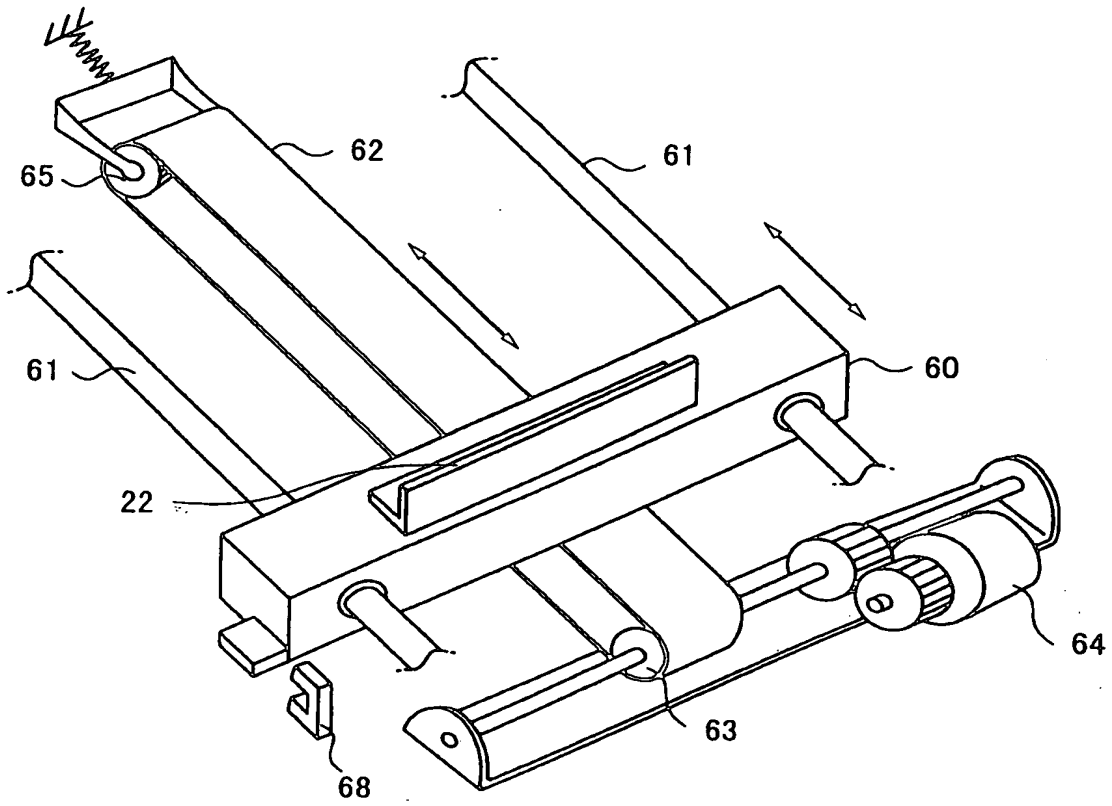


FIG. 3A

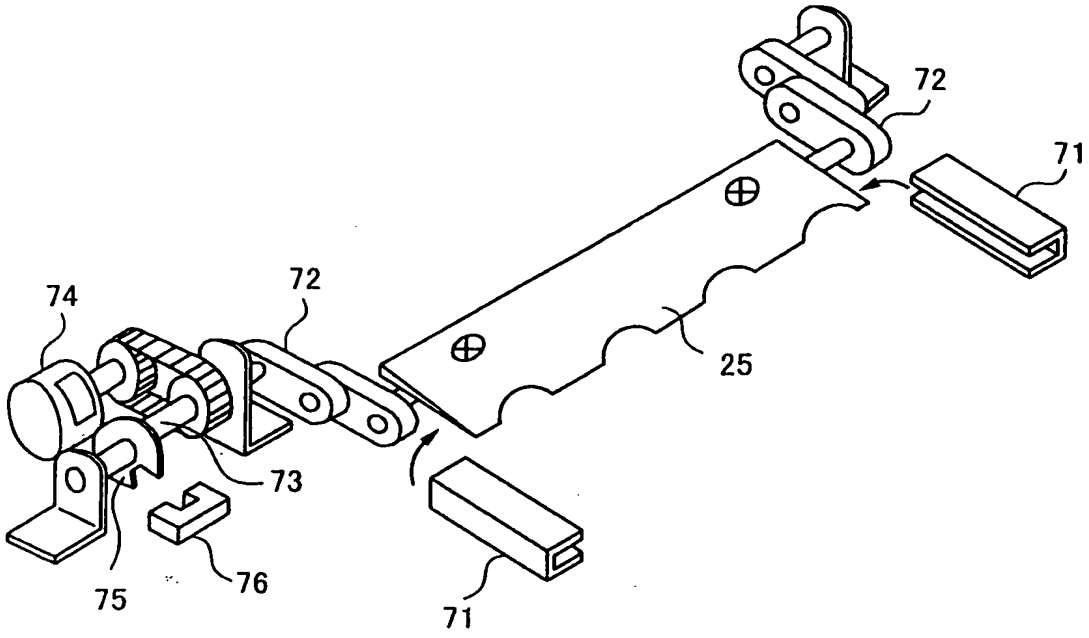


FIG. 3B

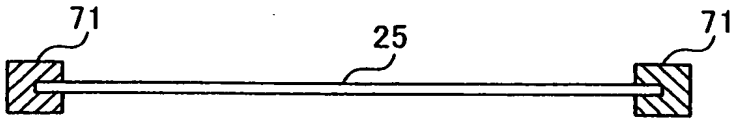


FIG. 4A

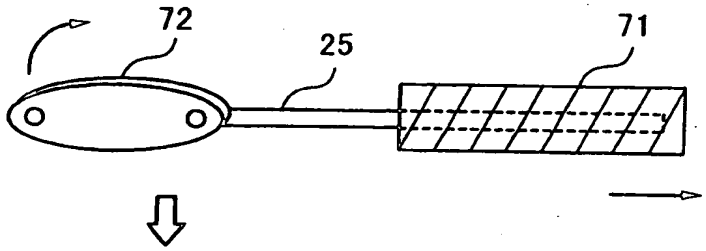


FIG. 4B

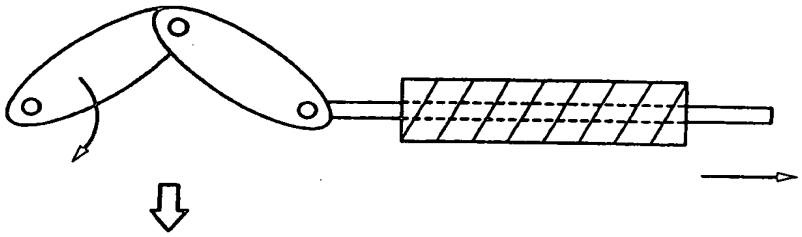


FIG. 4C

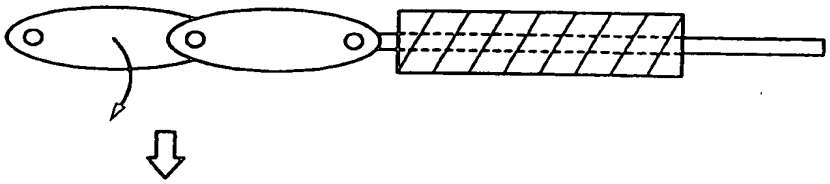


FIG. 4D

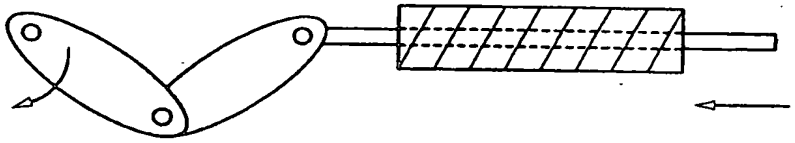
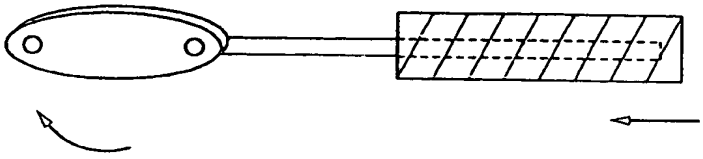


FIG. 4E



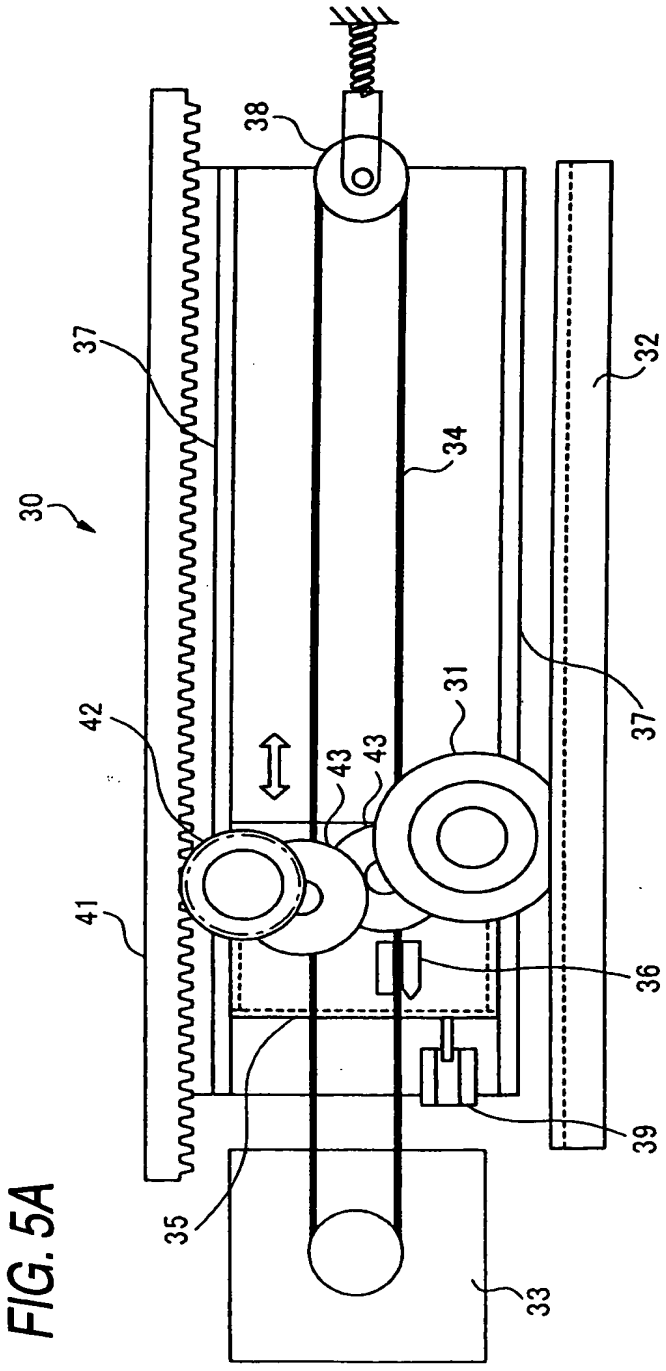


FIG. 5A

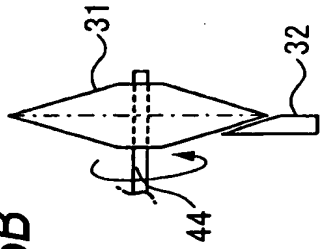


FIG. 5B

FIG. 6A

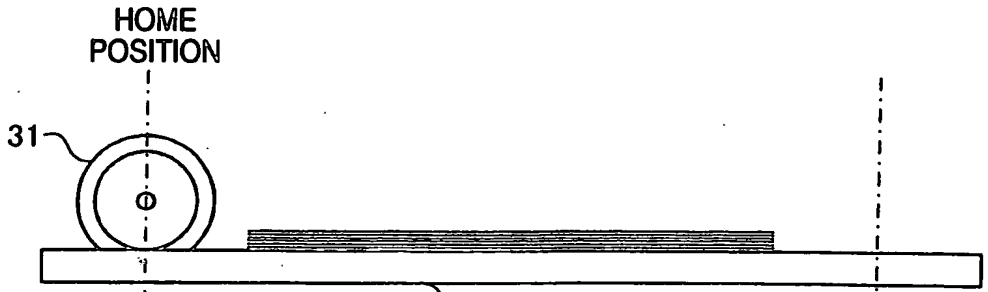


FIG. 6B

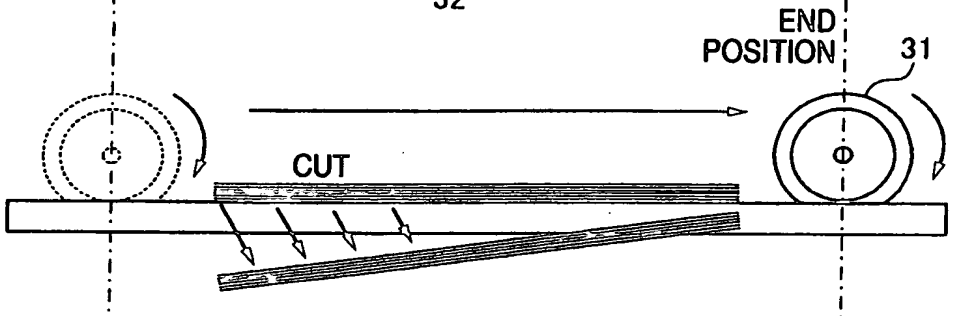


FIG. 6C

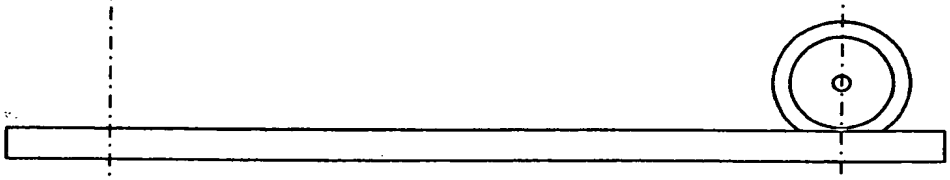


FIG. 6D

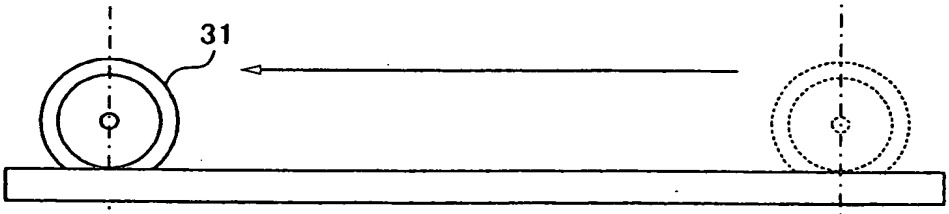


FIG. 6E

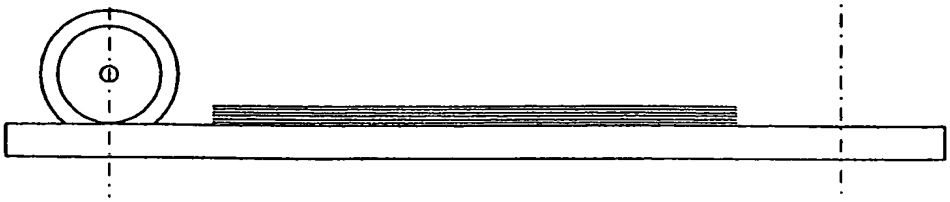


FIG. 7A

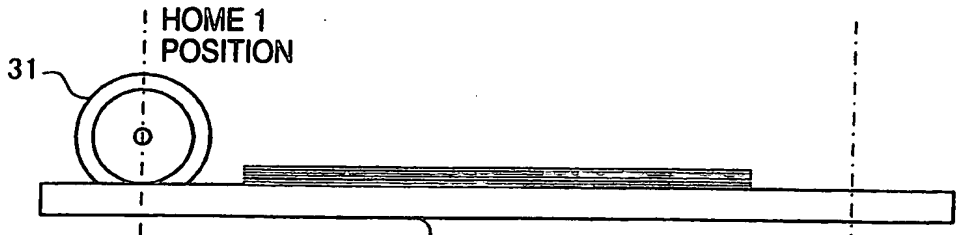


FIG. 7B

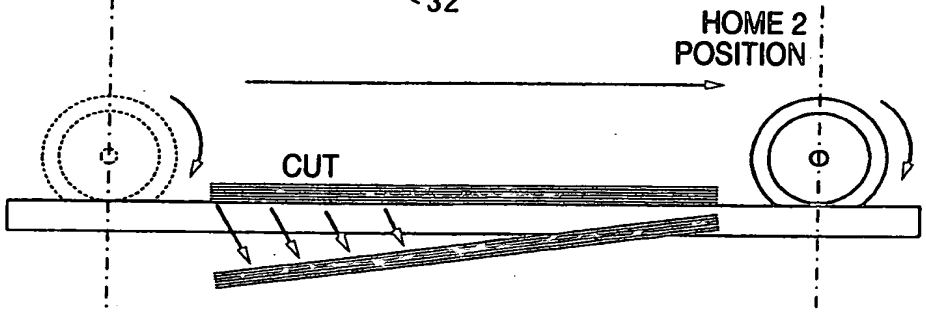


FIG. 7C

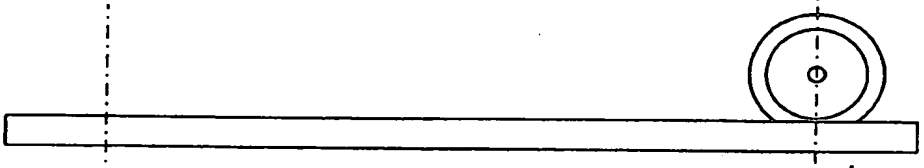


FIG. 7D

FIG. 7E

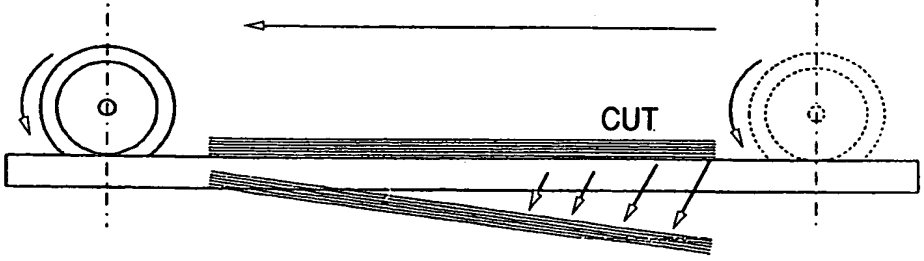


FIG. 8A

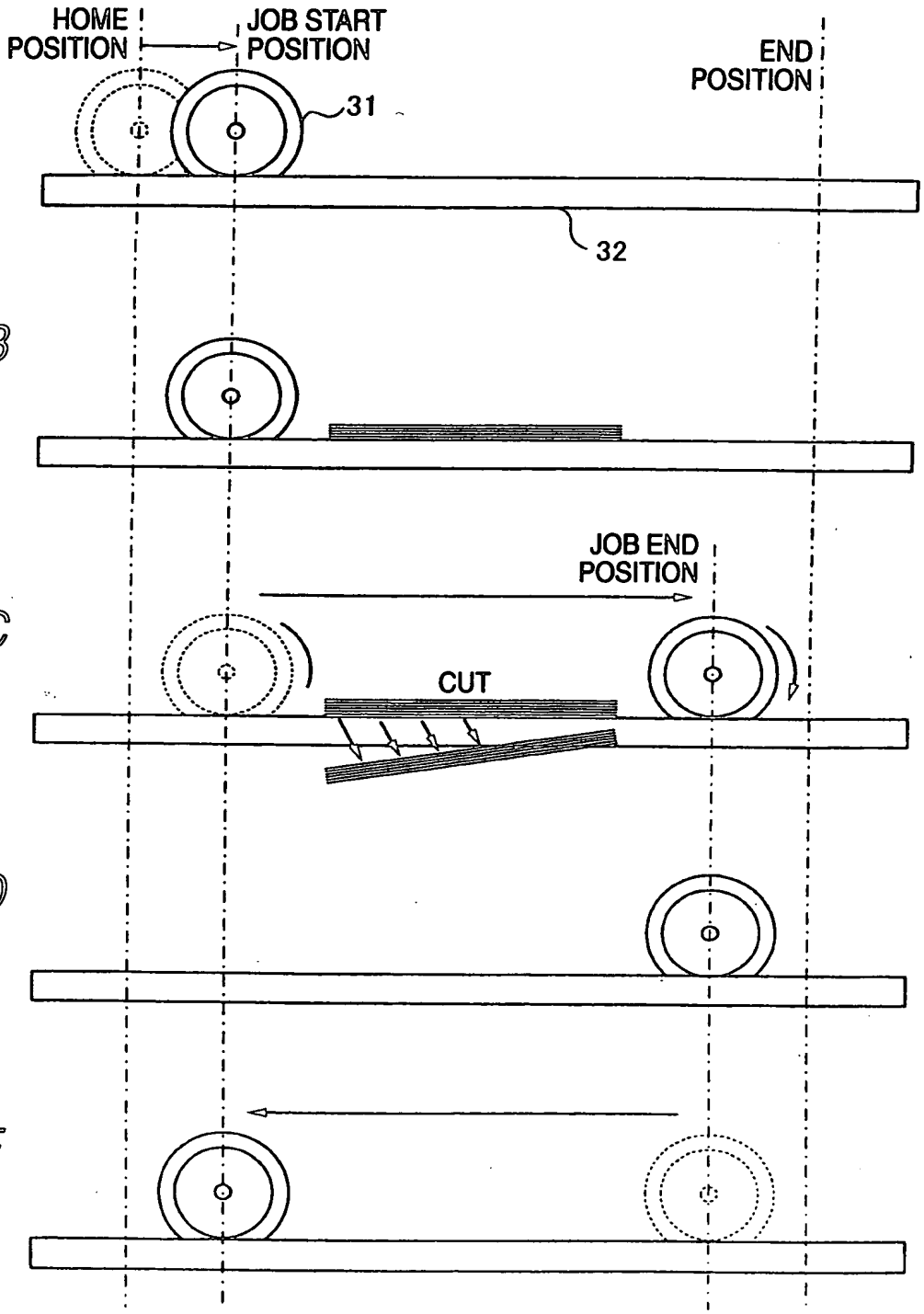


FIG. 8B

FIG. 8C

FIG. 8D

FIG. 8E

FIG. 9A

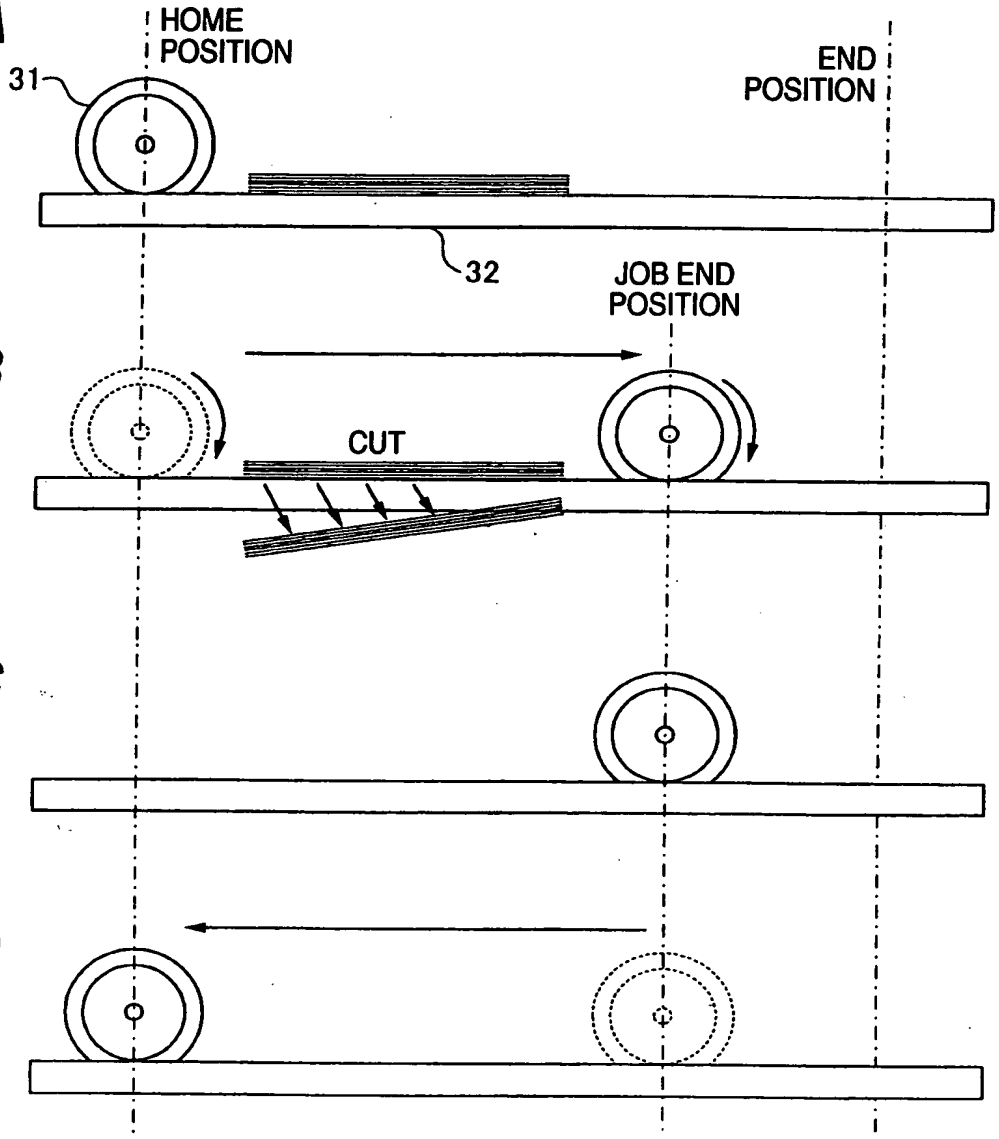


FIG. 9B

FIG. 9C

FIG. 9D

FIG. 10A

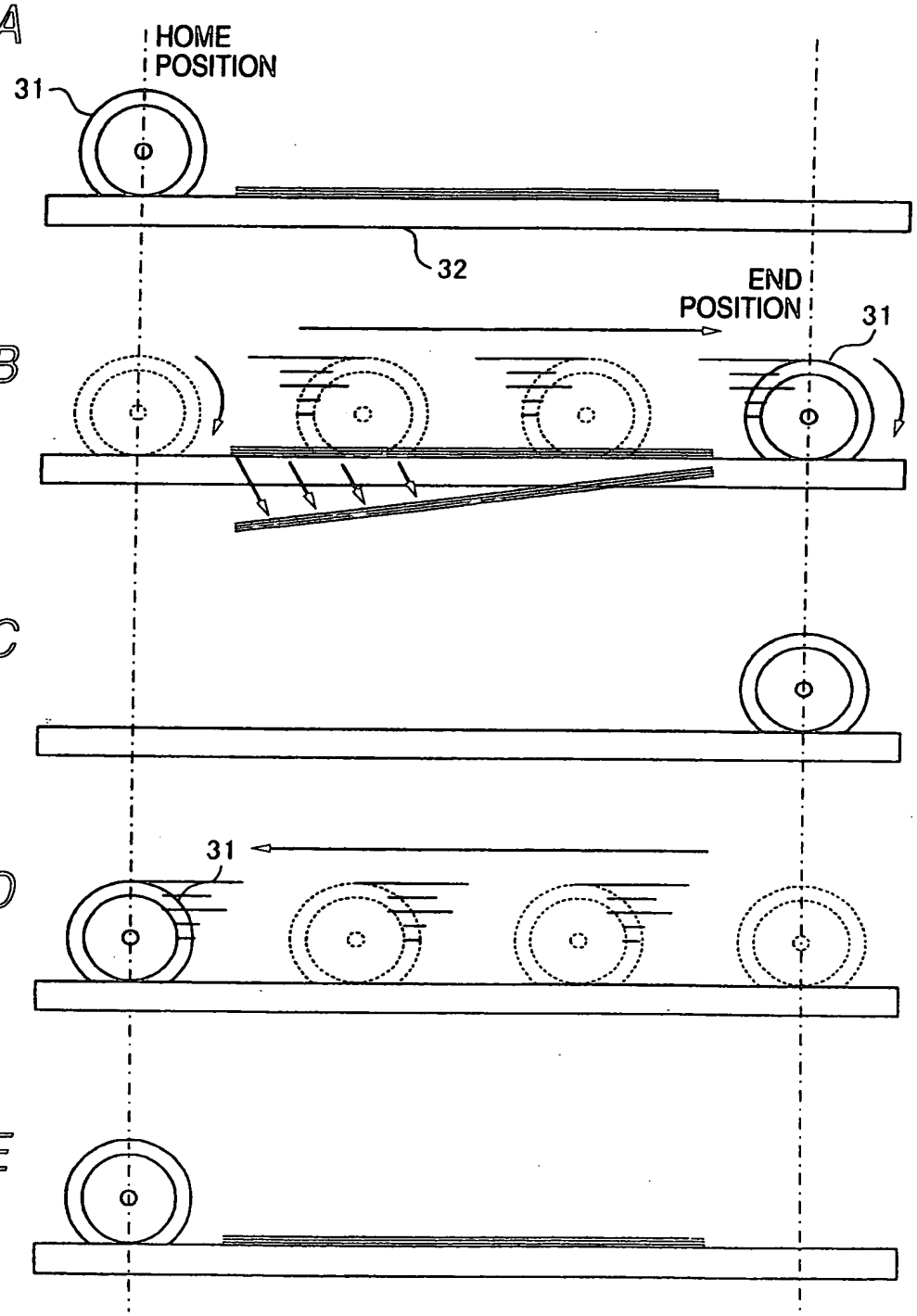


FIG. 10B

FIG. 10C

FIG. 10D

FIG. 10E

FIG. 11A

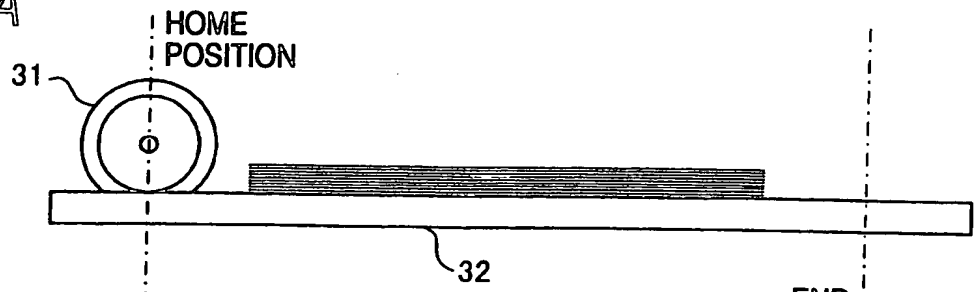


FIG. 11B

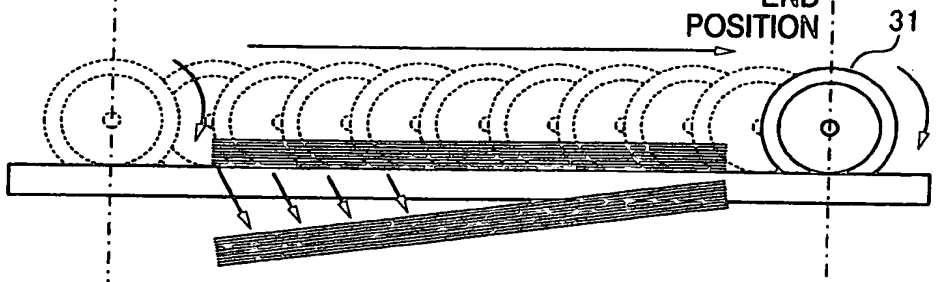


FIG. 11C

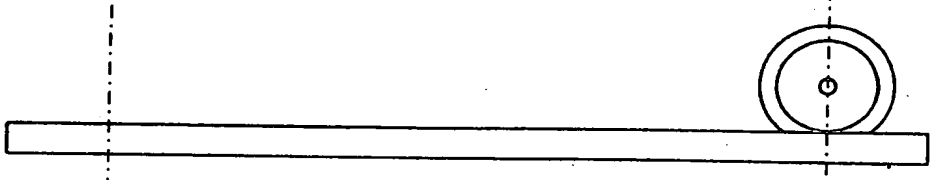


FIG. 11D

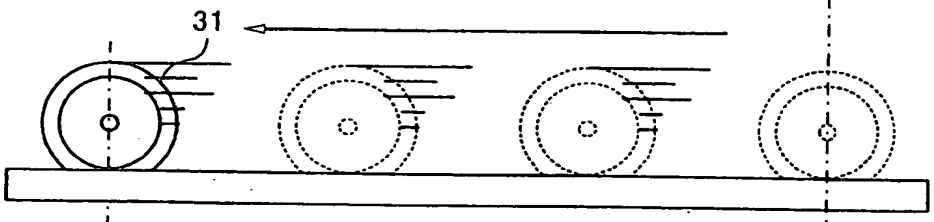


FIG. 11E

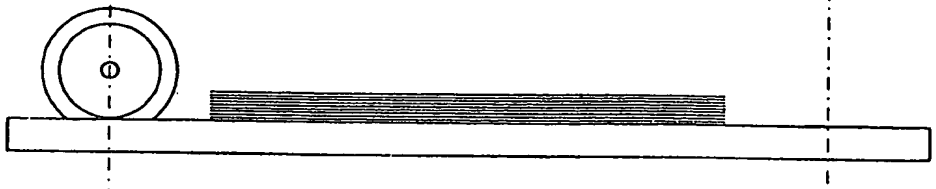


FIG. 12

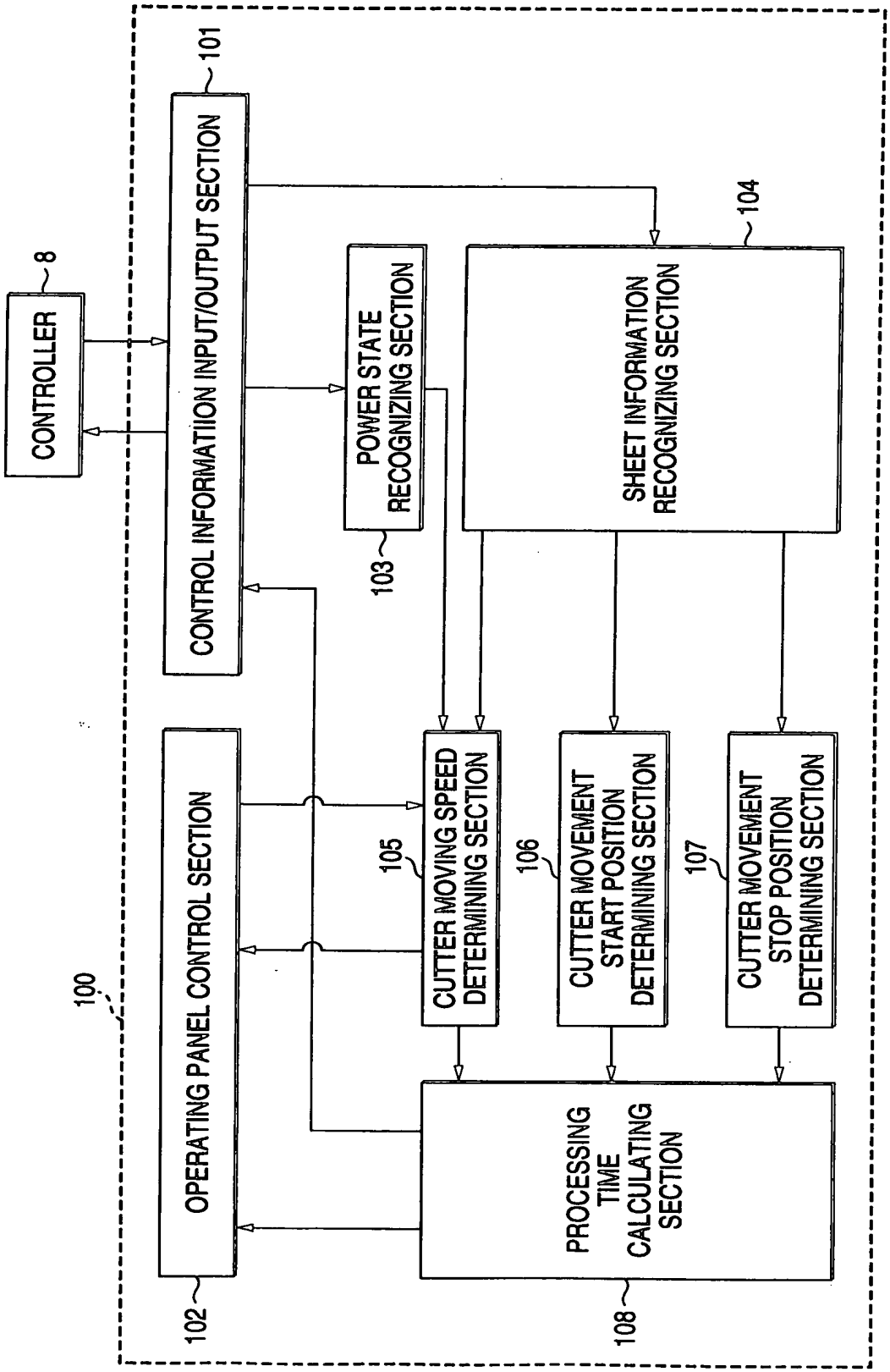

CONTROLLER
8
CONTROL INFORMATION INPUT/OUTPUT SECTION
101
POWER STATE RECOGNIZING SECTION
103
SHEET INFORMATION RECOGNIZING SECTION
104
OPERATING PANEL CONTROL SECTION
102
CUTTER MOVING SPEED DETERMINING SECTION
105
CUTTER MOVEMENT START POSITION DETERMINING SECTION
106
CUTTER MOVEMENT STOP POSITION DETERMINING SECTION
107
PROCESSING TIME CALCULATING SECTION
108
100

FIG. 13

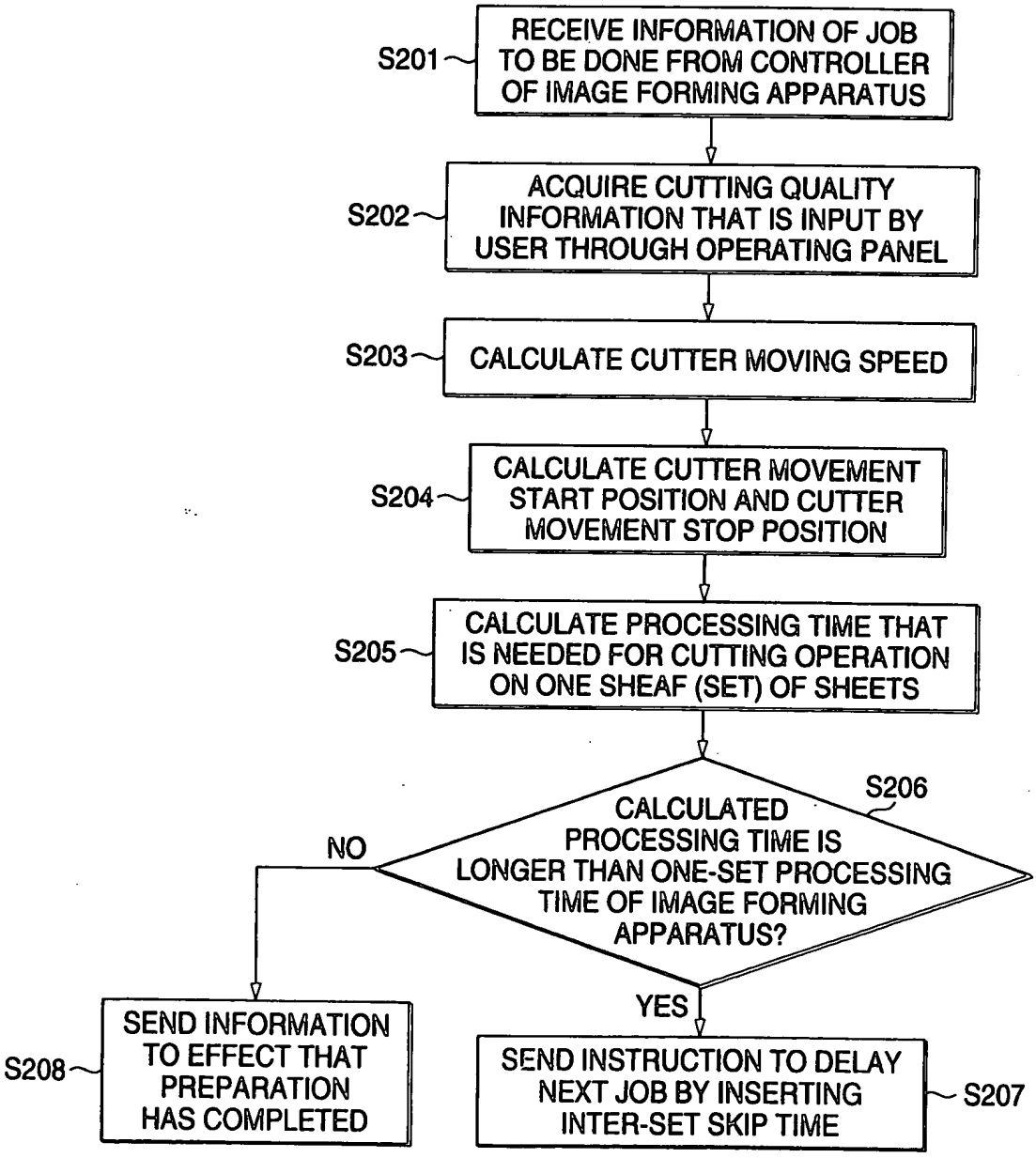

S201
RECEIVE INFORMATION OF JOB TO BE DONE FROM CONTROLLER OF IMAGE FORMING APPARATUS
S202
ACQUIRE CUTTING QUALITY INFORMATION THAT IS INPUT BY USER THROUGH OPERATING PANEL
S203
CALCULATE CUTTER MOVING SPEED
S204
CALCULATE CUTTER MOVEMENT START POSITION AND CUTTER MOVEMENT STOP POSITION
S205
CALCULATE PROCESSING TIME THAT IS NEEDED FOR CUTTING OPERATION ON ONE SHEAF (SET) OF SHEETS
S206
CALCULATED PROCESSING TIME IS LONGER THAN ONE-SET PROCESSING TIME OF IMAGE FORMING APPARATUS?
NO
YES
S208
SEND INFORMATION TO EFFECT THAT PREPARATION HAS COMPLETED
SEND INSTRUCTION TO DELAY NEXT JOB BY INSERTING INTER-SET SKIP TIME
S207

FIG. 14

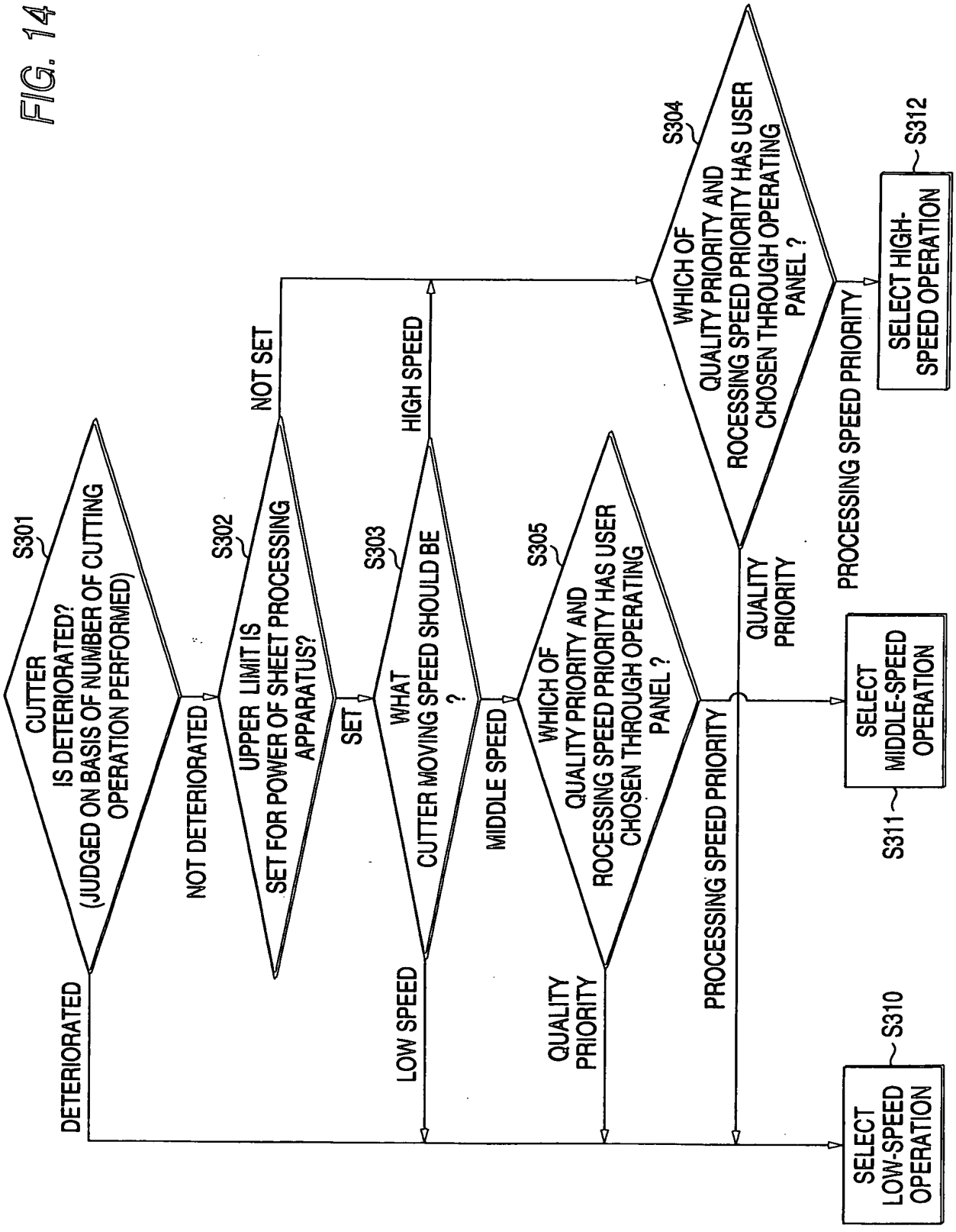

S301
CUTTER IS DETERIORATED? (JUDGED ON BASIS OF NUMBER OF CUTTING OPERATION PERFORMED)
DETERIORATED
NOT DETERIORATED
S302
UPPER LIMIT IS SET FOR POWER OF SHEET PROCESSING APPARATUS?
NOT SET
SET
S303
WHAT CUTTER MOVING SPEED SHOULD BE ?
HIGH SPEED
MIDDLE SPEED
LOW SPEED
S304
WHICH OF QUALITY PRIORITY AND ROCESSING SPEED PRIORITY HAS USER CHOSEN THROUGH OPERATING PANEL ?
QUALITY PRIORITY
PROCESSING SPEED PRIORITY
S305
WHICH OF QUALITY PRIORITY AND ROCESSING SPEED PRIORITY HAS USER CHOSEN THROUGH OPERATING PANEL ?
QUALITY PRIORITY
PROCESSING SPEED PRIORITY
S310
SELECT LOW-SPEED OPERATION
S311
SELECT MIDDLE-SPEED OPERATION
S312
SELECT HIGH-SPEED OPERATION

FIG. 15

NUMBER OF SHEETS	ORDINARY SHEET	THICK SHEET-1	THICK SHEET-2
2	HIGH SPEED (- 512gsm)	HIGH SPEED (- 648gsm)	HIGH SPEED (- 880gsm)
3	HIGH SPEED (- 768gsm)	HIGH SPEED (- 972gsm)	MIDDLE SPEED (- 1320gsm)
4	HIGH SPEED (- 1024gsm)	MIDDLE SPEED (- 1296gsm)	MIDDLE SPEED (- 1760gsm)
5	HIGH SPEED (- 1280gsm)	MIDDLE SPEED (- 1620gsm)	MIDDLE SPEED (- 2200gsm)
6	MIDDLE SPEED (- 1536gsm)	MIDDLE SPEED (- 1944gsm)	LOW SPEED (- 2640gsm)
7	MIDDLE SPEED (- 1792gsm)	MIDDLE SPEED (- 2268gsm)	LOW SPEED (- 3080gsm)
8	MIDDLE SPEED (- 2048gsm)	LOW SPEED (- 2592gsm)	LOW SPEED (- 3520gsm)
9	MIDDLE SPEED (- 2304gsm)	LOW SPEED (- 2916gsm)	BOOK FORMATION IMPOSSIBLE
10	MIDDLE SPEED (- 2560gsm)	LOW SPEED (- 3240gsm)	BOOK FORMATION IMPOSSIBLE
11	LOW SPEED (- 2816gsm)	LOW SPEED (- 3564gsm)	BOOK FORMATION IMPOSSIBLE
12	LOW SPEED (- 3072gsm)	BOOK FORMATION IMPOSSIBLE	BOOK FORMATION IMPOSSIBLE
13	LOW SPEED (- 3328gsm)	BOOK FORMATION IMPOSSIBLE	BOOK FORMATION IMPOSSIBLE
14	LOW SPEED (- 3584gsm)	BOOK FORMATION IMPOSSIBLE	BOOK FORMATION IMPOSSIBLE
15	LOW SPEED (- 3840gsm)	BOOK FORMATION IMPOSSIBLE	BOOK FORMATION IMPOSSIBLE

FIG. 16

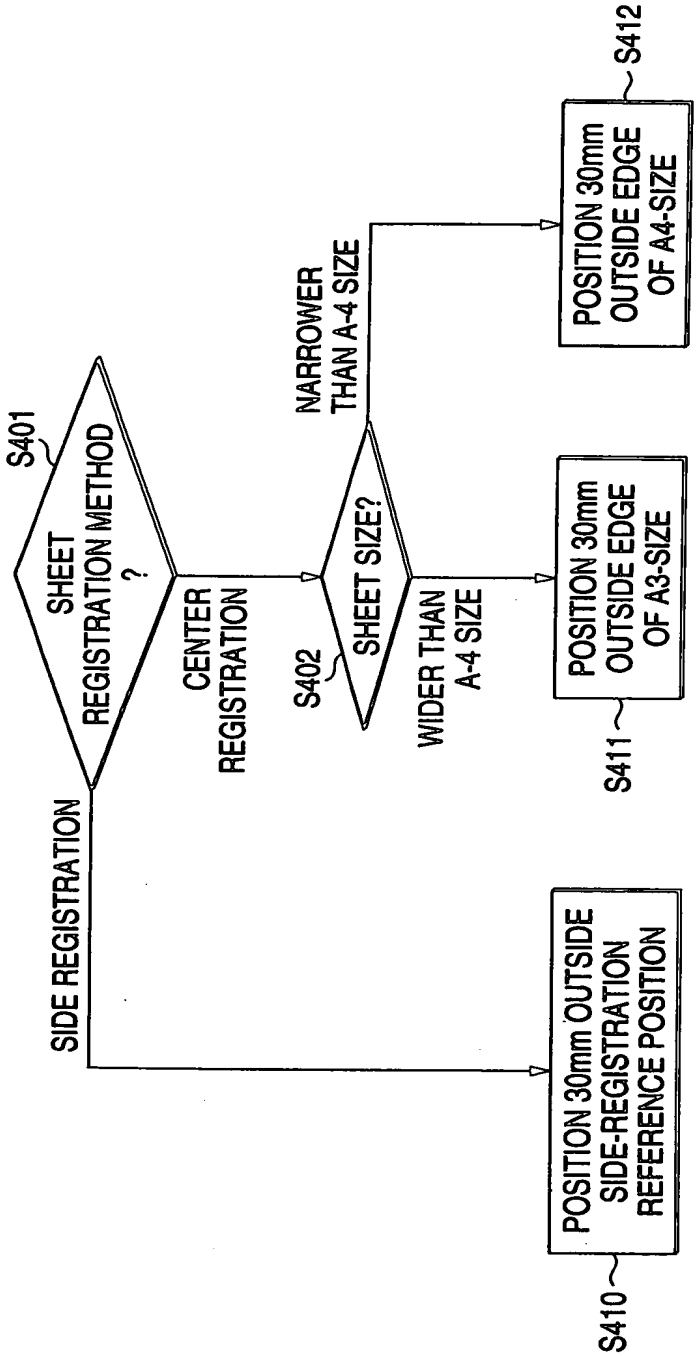

S401
SHEET REGISTRATION METHOD ?
SIDE REGISTRATION
CENTER REGISTRATION
S402
SHEET SIZE?
NARROWER THAN A-4 SIZE
WIDER THAN A-4 SIZE
POSITION 30mm OUTSIDE SIDE-REGISTRATION REFERENCE POSITION
S410
POSITION 30mm OUTSIDE EDGE OF A3-SIZE
S411
POSITION 30mm OUTSIDE EDGE OF A4-SIZE
S412

FIG. 17

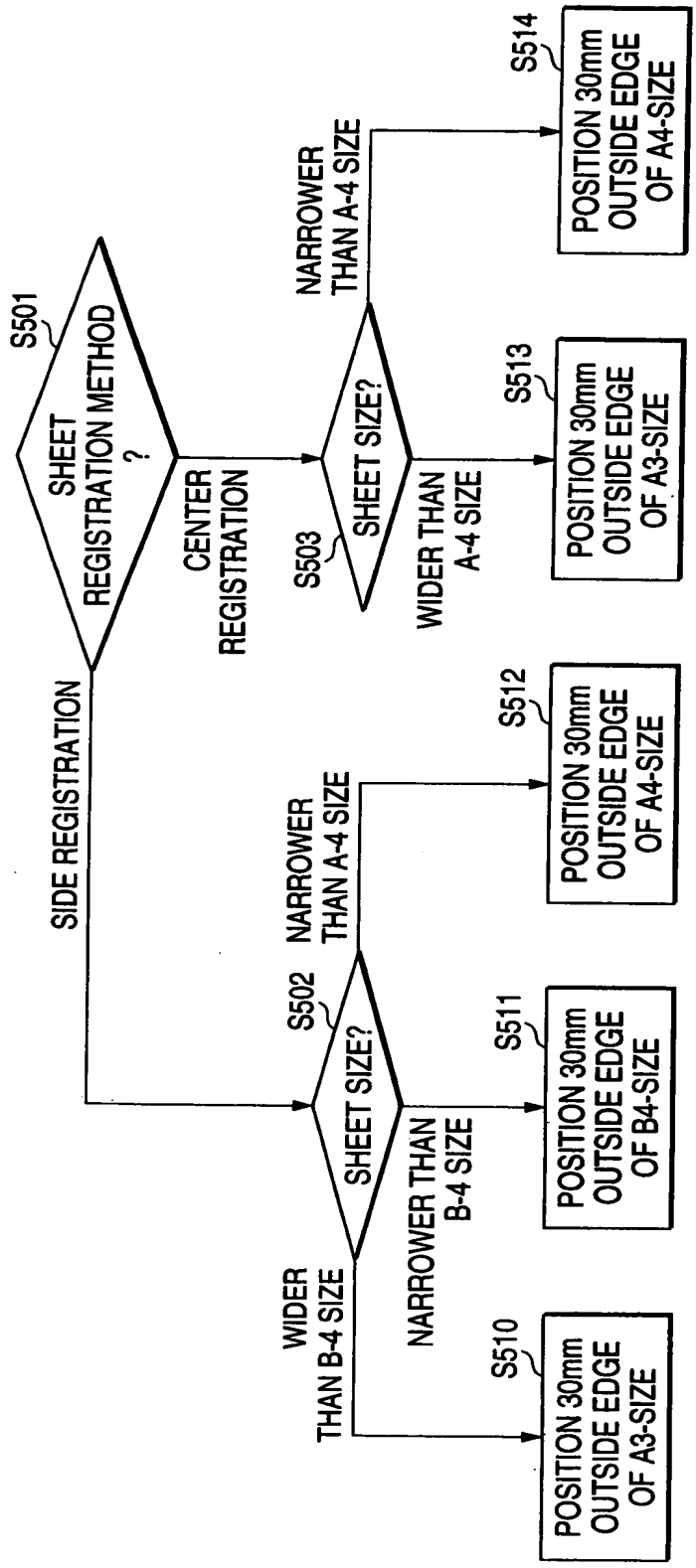
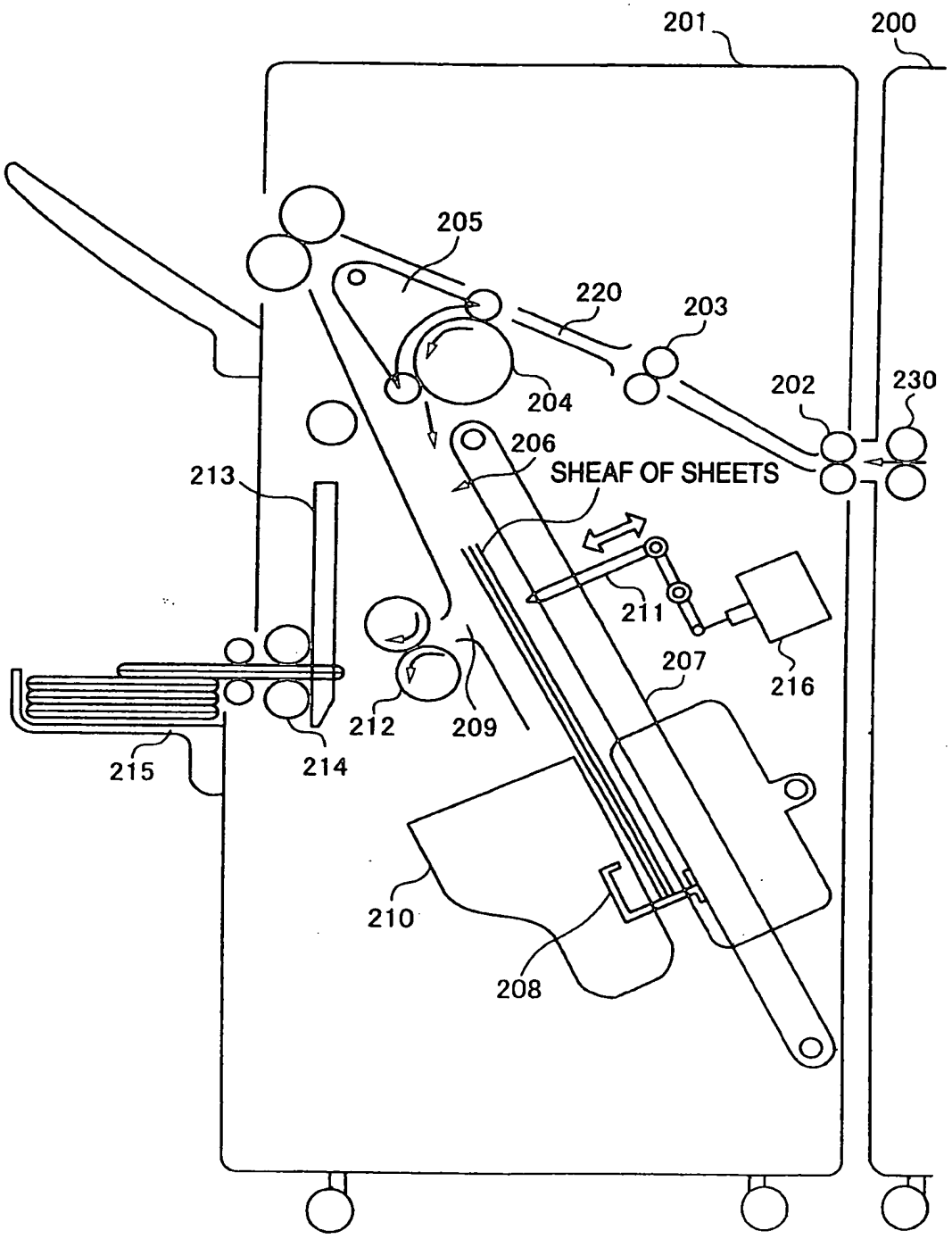

S501
SHEET REGISTRATION METHOD ?
SIDE REGISTRATION
CENTER REGISTRATION
S502
SHEET SIZE?
NARROWER THAN A-4 SIZE
WIDER THAN B-4 SIZE
NARROWER THAN B-4 SIZE
S503
SHEET SIZE?
NARROWER THAN A-4 SIZE
WIDER THAN A-4 SIZE
S510
POSITION 30mm OUTSIDE EDGE OF A3-SIZE
S511
POSITION 30mm OUTSIDE EDGE OF B4-SIZE
S512
POSITION 30mm OUTSIDE EDGE OF A4-SIZE
S513
POSITION 30mm OUTSIDE EDGE OF A3-SIZE
S514
POSITION 30mm OUTSIDE EDGE OF A4-SIZE

FIG. 18


201
200
205
220
203
204
202
230
206
SHEAF OF SHEETS
213
211
207
216
212
209
215
214
210
208